

UWIN (Utah Wireless Integrated Network)

MINUTES

August 6, 2004, 10:05 a.m.

SOB Room 4112

Conducting: Camille Anthony, Executive Director, DAS

Attending Board Members	Lloyd Johnson, DNR Val Oveson, CIO Verdi White, Homeland Security/DPS	Ed McConkie, CCJJ Mike Peterson, UEN	Christine Mitchell, DOC Steve Proctor, UCAN
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Staff & Visitors	Phil Bates, DPS Nancy Gibbs, URTA Mark Peck, SLCPD Jeanie Watanabe, CIO office Brent Thomas, DPS/DES	Doug Chandler, ITS Jake Hunt, UCAN Floyd Ritter, ITS Paul Chavez, NCOIC Lou Little, DPS/DES	Tim Cornia, DPS Nancy McConnell, ITS Arie VanDeGraff, UAC Lt. Lee Kelley, National Guard
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AGENDA

Phase Two Data Presentation

Phil Bates & Doug Chandler

Power Point presentation outlining the project. Doug reported Phase One mobile data is rolling out. Initially, have 17 sites and two redundant network sites at the State Office Building and Richfield Alternate Site. The two regions are the Tri-County area in Daggett, Uintah, Duchene County and the Southwest I-15 corridor from Fillmore down into St. George. The initial speed will be 33kpb and be upgraded to 128K (pricing available if interest). Working to establish on four different mountain tops the 700 MHz antennas shown on picture with three antennas per tower - one transmitter and two receivers. The State owns or manages the sites in the Tri-County area. For the southwest we still have to go over ownership and lease agreements. We are in the process of configuring the racks and determining where to put the power supply.

Tri-County area has a more specific computer-generated map showing how it fills in. Ed McConkie asked about 'worst case scenario.' Typical obstruction for minimum coverage is the power level. It is on the receiving end that will determine coverage available. This is 37db; much broader than circles shown and virtually seamless. Laptops cards operate on ½ a watt. These are 25/30 watts (different technology). Mountaintops can use up to 100.

Costs:

Routers	\$119,360
Base station radios	208,700
Network controller	200,000
200 mobile units	360,000
Antennas	54,660
Miscellaneous	38,757
Total	\$981,477

Timeline:

AUG 2004	Training and bench testing
SEP	Initial turn up and testing: 3 sites, 6 mobiles
OCT	Complete Tri-County area: 7 sites, 100 cars
NOV	Southwest: 4 sites, 10 mobiles
DEC	Site agreements, Mobile installs
SPRING 2005	Complete phase one

Current UHF systems to 700 MHz

- Comparable data
- Faster the speed, the less the coverage; slower speed, lower frequency gives more expansion.
- Existing 450 MHz (10 sites) upgraded to 700 MHz (hardware will be free upgrade).

Phil reported that of the \$1.2 million dedicated to Phase One, \$900,000 has been spent. The remainder of the money is being looked in doing some coverage across site 70 and down thru the Moab/Monticello targeting key areas.

Grant

Submitted for Phase Two to bring Wasatch front up and modems required, giving us good statewide coverage. Should know within 30-60 days.

RFID (radio frequency ID) and RTLS (real time location information system).

- Two new technologies into 802.11 - RFID and RTLS
- Access point incorporates a digital signature to identify to system for location (inventory, people) into the modem in the car, turning each into an 802.11 access point.
- Anything within 300 feet of that has 802.11 capability can attach to the car and use the infrastructure to call in. Four cars with 802.11 devices good blanket on an incident.
- If chip RFID it can locate with RTLS.
- Symbol working with IT Mobile net to give demo
- Agencies could use for: Automatic inventory, identifying where equipment moved, tracking of people, transportation issues, tracking livestock, safety in locating people in the case of a fire, prisoner tracking, etc.
- Military could use infrastructure to report information
- If you have the chips, can be triangulated for location.

Education for a broader constituency

- UWIN members would be happy to present upon request
- Steve Proctor would like a presentation to the UCAN board meeting in September
- Website could be used for posting this information.

Education Committee Discussion

- Camille asked to make a presentation at a meeting in Chicago next week
- Education piece for Utah State Legislature for funding
- Educate people in the field on how to use and manage the data equipment on actual day-to-day application
 - Website is a good referral
- Commissioner White suggested technical personnel (one or two persons) go out to do training.
- Mike Peterson suggested UEN could be beneficial.
 - Utilizing the technology to save time in training.
 - Take advantage of the video conferencing system - a first contact.
 - One-line resource that whoever took the training could refer to refresh training. Interaction between the trainer and the student.
 - UEN has license to the best on-line course management system available in the country.
 - Two: Blackboard (Microsoft) and WEBCT (product Utah has focused on). Statewide license to use WEBCT; because of licensing could be used by anyone in State government.
 - Develop web-based material to make available course work on-line.
 - Extend to local, State, military personnel
- Communication problems in not knowing how to access
 - Naming the channels the same
 - Putting in same place in radio
 - All agencies responding within geographical location know where it is.
 - Training new police officers in radio, interoperability channels: where, who, and how, dispatch centers they access
 - An hour to teach critical information
 - Make it as simple as possible
- Curriculum
 - Define and write for the training appropriate people.
 - Suggested rather than have an ongoing education committee; giving specific people specific assignments and oversee from the governing board level.
 - Input as curriculum developed

Interoperability Committee Discussion

- Proposal for fourth subcommittee of Interoperability
 - Needs initial assessment
 - Bring all dispatch centers together for policy or directive to teach how to use

- Every major event has brought serious communication issues when they don't know how to use their radios Input from all regions and centers
 - Define and furnish processes
 - Standardization of processes
- ❖ **Motion** to create the Interoperability Committee by Val Oveson. Seconded by Mike Petersen.
- Timeline coming up with merger which Steve will talk about.
 - As soon as that is complete, looking at reprogramming in less than 60 days most user radios that interface in the Salt Lake County area.
 - Decisions between Salt Lake City, Salt Lake County, and all users incorporated in these groups.
 - Willingness not there to try to resolve quickly. (5,000 radios within this area).
 - Ongoing training because of necessity of programming.
- Committee should be a forum for any concerns that come up and involve an interactive curriculum. This would be a UWIN feedback opportunity creating activity rather than complacency. Chairs of committees responsibility to keep issues defined and submit to the governing board for management.
- Phil Bates and Steve Proctor asked to co-chair this subcommittee. People in agencies who may be interested. Volunteer list:

Verdi White II	DPS	965-4461
Ed McConkie	CCJJ	538-1028
Lt. Lee Kelley	National Guard	302-5322
Mark Peck	SLCPD	799-3201
Floyd Ritter	ITS	965-3869
Chris Rueckert	DPS Communications	
Jake Hunt	UCAN	840-4202
Brent Thomas	DPS/DES	538-3700

Committee to set a date for their first meeting
 Unanimous vote for establishment of committee.

UCAN Merger with SLCO
UCAN/SLC Grant Proposal
FCC 800 MHz Consensus Plan
 Steve Proctor and Mark Peck

Merger

- The last 18 months has completed the engineering, leasing of sites, and constructing of sites. Sites at Beck have been turned off site at Beck and Mahogany site is now operable, and moving of Point-of-Mountain site to Draper (pictures of move).
- Developing migration plan for getting county and county units on between September 30 and October 15 to merge into system.
- Beck site moving to Jordan Commons, Point of Mountain will move to South Mountain.
- City Creek and Granite water site remains in place.
- All sites will be upgraded to 19 channels of simulcast incorporating SL County channels, including the City Creek site, facilitating the connection to the counties proposed network and also installing a connection to the DOTTOC center, facilitating the connections to the 150 network which goes to the remainder of the State. Critical to have these three zones sites work together.
- Omni Link has been a partnered project with UCAN, DPS, Motorola and ITS. Covers about 90% of the State's population. Most states not to this point yet.
- Network is being talked about at as national grant program and police offices. We can be proud of what we have accomplished.
- UCAN and SLC have partnered in a grant to build a three-site simulcast system incorporating police, fire, airport, and public works less than one network. Build a bridge between the two networks allowing UCAN \$1,000,000 to expand network to wider cover, allowing sharing and backup of the two simulcast here in the SLCounty area. Omni Link will facilitate that connection.

Grant Proposal

Up to \$6,000,000. Salt Lake City and Ogden, a metropolitan statistical area, includes Tooele and Summit counties. It is an opportunity to upgrade the system we have right now and share with UCAN, supporting UWIN. Multi-disciplinary and multi-jurisdictional were key points.

- Camille, as chair of UWIN, submitted a letter of support from UNWIN. All members are represented in supporting that grant.

Recent local incidents

- Four major alarm fires: West Jordan, Recycling Plant, and SmrftStone Container. Calls increased 42% (80,000 calls). Saturday on the mop up was up 12% - an indication of the damage. Six alarm response - filling with Davis, Utah, Summit coverage for SLC while fighting this fire. Only minor Issues with communication with issues of duplication of apparatus.

FCC 800 MHz Consensus Plan

Press release issued

- Acceptance of the plan set forth by Nextel.
 - Formal document yet to be issued.
 - Administrator for this plan to be announced.
 - Each agency develops a contract in establishing to establish timelines.
 - (News Release, including 800 MHz configuration diagram, available from Steve Proctor).

Status of 4.9 GHz

Tim Cornia

- FCC issued a stay on any further planning processes with the 4.9 spectrum; have not suspended licensing
- State of Utah only state to submit plan out of 55 regions. Steve sent it to surrounding states that thought it a great plan.
- Tim Cornia reported plan is posted on 4.9 GHz Yahoo groups or UWIN website.
- RPC41 have authority to centrally track who is using and act as a depository of tracking that information. Subscribe to Yahoo group off UWIN to read through.
- Plan also describes how we go about resolving conflicts.
- Equipment not being created in 4.9 GHz; no mobile equipment, but point-to-point equipment available for communication.

Finance Committee

Camille Anthony

Dave Lamb has taken another position with Risk Management and will be replaced as chair of the Finance Committee. No numbers to report; however in the next several weeks looking at strategy for funding whether it be rate, request to Legislature or State funding. Numbers for voice based on population. Present for your review as soon as ready for public information. Much of it will come through the rate committee process. Be sensitive to the fact that this is a statewide project. Locals have an interest though it is not as broad.

Technology Steering Committee

Doug Chandler

- Website will put you on mailing list as a member of the committee. Link will take you to Tim's Yahoo group.
- Yahoo group allows it to be two-way with other links.
 - Files, messages available. It is a well-written plan.
 - Each of the subcommittee's are associated with the Yahoo group.
 - Member roster continually growing
 - Glossary is now available for topics associated.
 - Could include interactive demo
- Most gratifying has been the number of people attending meetings. July 9th in Duchene 29 people attended (5 were on conference) from 12 state agencies, 6 cities, 8 counties, 3 vendors. Great food!
- Issue of address mobile data users being told to plug in new 700 MHz first and then roll you over to it (then not on free upgrade). With grant money now you can buy mobile data unit. Can't buy more UHF, can't buy 700 yet because not in their area. Will move as fast as we can.

Narrow band migration committee, Boyd Webb

- Two basic plans being looked at by the team. Keep it as simple as possible.
 - One plan is right way to go and recognized as such; however, it is hard and expensive - not enough participation.
 - The other plan is easier and cheaper and will receive more participation.

- Dialogue on final decision.

Wireless Ethernet project team

- Security issues on document ITS put out with some confusion and animosity.
 - Online feedback
 - Rewrite document making it acceptable to the local agencies.
 - Contingencies made to LAN people. Decisions being made on the executive, forcing them to follow a mandate for which they had no input.
 - Does more security on the wireless than on the wired part make sense? What's too much? Team will discuss
 - Authentication: Does it have to be single point? What are the implications on that?

UWIN Phase Two asked for more guidance

- Proposed part of Phase Two
 - Omni Link policy and procedures (part of the Interoperability committee)
 - 700 MHz mobile data,
 - Developing policies and procedures. Technology coming out so fast, it's implemented before we even talk about it.
- Alternate internet connection
 - Governance board
 - Final approval 802.11 (wireless Ethernet)
 - Finalize region 41
 - Address network persistence issues
 - Training
 - Narrow band plan
 - Two vendors, Equitel and NetMotion, talked about network persistence and their product. ?
 - Applications use: car mobile net in my car? Which one is it used; how is it handed back over, do I have to log in when I drive in and out of coverage (won't have to do that with network persistence)
- Next Friday in Cedar City, 10:00 a.m.: No video link, but conference available (number will be on website).
- Technology Steering Committee to proceed with governing board's authority to move forward.

Other Business

Federal contacts

Sherm Hoskins, DNR, called Camille and reported that a Federal contact with National Parks asked if we were going to involve them? Technology subcommittee very active on the FBI, Forrest Service. All arenas welcome to participate, and it is important for them to do so. If you have Federal partners interested in participating, let them know anyone is welcome and have been involved from the beginning. Have they been notifying their broader constituency of the activities? Federal partners are important, especially in receiving grant dollars.

Group Meetings

- Chief Shupe requested a small group of UWIN participants to meet with the Chiefs of Police on the 17th of August.
- If others of you have groups with which you want us to meet regarding questions or concerns, please let us know.
- Legislatures will want to be made aware of budget and policy priorities and have a similar understanding to enable them to speak with a uniform voice.

Camille expressed thanks to you and your staffs. A lot of work has gone into pulling this off, and it is remarkable to have accomplished what we have.

Nancy Gibbs, Utah Rural Telcomm Assn. commended this group for being out on time and accomplishing a lot in the meeting.

Next meeting Friday, September 3, 2004, 10:00-11:30 a.m.